Course Unit Descriptor

Study Programme: Production Engineering			
Course Unit Title: Casting Technology			
Course Unit Code: P110			
Name of Lecturer(s): Lazar Kovačević			
Type and Level of Studies: Bachelor level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): Summer			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: None			
Course Aims: Course objective is to introduce students with the basics of foundry technology.			
Learning Outcomes: Students attending the course will gain necessary knowledge to select adequate casting technology based on requested quantity, application, mechanical properties and tolerances.			
Syllabus: Introduction to foundry technology.Technological specifics and necessary equipment for sand, permanent mold, die, lost wax and centrifugal casting technologies. Influence of sand reclamation and sand quality on the cast part characteristics. Influence of part design, material selection and wall thickness on cast part quality. Casting of gray iron, steel and ductile iron castings - basic characteristics of selected materials. Latest trends in foundry technology.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours:	**Lectures:**	**Practical work:**	
Teaching Methods: Forms of teaching activities are lectures, laboratory practical classes and consultations. Using necessary teaching resources during the lectures, subject matter is presented to students by stimulating their active participation as they are required to explain the contents of which they are assigned.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	**Final exam**	points
Group Assignment		Examination Assignment	
Exercises			
Test			
Test			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			